

**IN THE CLAIMS**

1-7. (canceled).

8. (currently amended) A device comprising a vacuum microelectromechanical device that comprises:

a device substrate;

a cathode attached to the device substrate, the cathode comprising electron emitters and having a surface;

a cathode emission control grid attached to the device substrate, the cathode emission control grid having a surface and configured to modulate the electrons drawn from the cathode;

and

an output structure,

wherein the cathode surface and the grid surface are substantially parallel, and wherein the cathode, the grid, or the cathode and the grid are attached to the device substrate by one or more flexural members.

9. (currently amended) The device of claim 8, wherein the cathode and the grid are attached to the device substrate by the one or more flexural members.

10. (original) The device of claim 8, wherein the cathode surface and the grid surface are substantially perpendicular to the device substrate surface.

11. (original) The device of claim 10, wherein the cathode and the grid are held in the substantially perpendicular position by locking mechanisms, the locking mechanisms attached to the device substrate by one or more flexural members.

12. (currently amended) The device of claim 8, wherein the output structure comprises an anode attached to the device

substrate, wherein the anode has a surface that is substantially parallel to the cathode surface and the grid surface.

13. (currently amended) The device of claim 12, wherein the anode is attached to the device substrate by the one or more flexural members.

14. (original) The device of claim 8, wherein the device further comprises one or more additional grids attached to the device substrate by one or more flexural members.

15. (original) The device of claim 8, wherein the cathode comprises carbon nanotube emitters.

16. (original) The device of claim 8, wherein the surfaces of the cathode and the grid are  $10^6 \mu\text{m}^2$  or less.

17. (original) The device of claim 8, wherein the spacing between the cathode and the grid is less than  $50 \mu\text{m}$ .

18. (original) The device of claim 8, wherein the vacuum microelectromechanical device is a triode device, a tetrode device, a pentode device, a klystrode device, a traveling wave tube device, or a klystron device.

19. (currently amended) A plurality of vacuum microelectromechanical devices, each of the plurality of vacuum microelectromechanical devices comprising:

a device substrate;

a cathode attached to the device substrate, the cathode comprising electron emitters and having a surface;

a cathode emission control grid attached to the device substrate, the cathode emission control grid having a surface and configured to modulate the electrons drawn from the cathode;  
and

an output structure,

wherein the cathode surface and the grid surface are substantially parallel, and wherein the cathode, the grid, or the cathode and the grid are attached to the device substrate by one or more flexural members.

20. (original) The device of claim 19, wherein at least a portion of the plurality of vacuum microelectromechanical devices are interconnected to provide an integrated electronic circuit.

21-40. (canceled).